

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/538,793
Source: IFW0
Date Processed by STIC: 3/20/06

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IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/538,793

DATE: 03/20/2006
TIME: 12:06:19

Input Set : A:\JP2003-15835seq..txt
Output Set: N:\CRF4\03202006\J538793.raw

3 <110> APPLICANT: TAKARA BIO INC.
5 <120> TITLE OF INVENTION: Cold-inducible expression vector
7 <130> FILE REFERENCE: 664200

C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/538,793
C--> 9 <141> CURRENT FILING DATE: 2005-06-01
9 <150> PRIOR APPLICATION NUMBER: JP 2002-359956
10 <151> PRIOR FILING DATE: 2002-12-11
12 <160> NUMBER OF SEQ ID NOS: 20
14 <170> SOFTWARE: PatentIn Ver. 2.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 1209
18 <212> TYPE: DNA
19 <213> ORGANISM: Escherichia coli
21 <400> SEQUENCE: 1
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23 agatccaatg catgagctgt tgagcagcct ggaacagatt gtttttaaag atgaaacgca 120
24 gaaaattacc ctgacgcaca gaacaacgtc ctgtaccgaa attgaggcagt tacgaaaaagg 180
25 gacaggattt aaaaatcgatg atttcgcccg ggtttgggc gtatcagtcg ccatggtaaa 240
26 ggaatggaa tccagacgcg tgaagccttc aagtgcggaa ctaaaaattga tgcgtttgat 300
27 tcaaggccaaac ccggcattaa gtaagcagtt gatggaatag acttttatcc actttattgc 360
28 tgtttacggc cctgatgaca ggaccgtttt ccaaccgatt aatcataaaat ataaaaaaata 420
29 attgttgcattt caccgcctt tgcgtggctt aatgcacatc aacggtttga cgtacagacc 480
30 attaaaggcgt ttagtgcattt caagtgatcc ttccgtatcc cctcgttagtgc 540
31 cacatttcattt taacgcttca aaatctgtaa agcacgcctt atcgccgaaa ggcacactt 600
32 attattaaag gtaatacact atgtccgtttaaa aatgactgg tatcgtaaaa tggttcaacg 660
33 ctgacaaaagg cttcggcttc atcactcctt acgtggctc taaagatgttgc 720
34 tctctgttat ccagaacgat gtttacaaat ctctggacga aggtcagaaa gtgtccttca 780
35 ccatcgaaag cggcgctaaa ggcccggcag ctggtaacgt aaccagcctg taatctctgc 840
36 ttaaaaagcac agaatctaag atccctgcca tttggcgggg atttttttat ttgttttcag 900
37 gaaataaaaata atcgatcgatg taataaaaatc tattattttt tttgtgaaga ataaaatttgg 960
38 gtgcaatgag aatgcgcac gccgttaagta aggccggaaat aatttccgc cgaagactct 1020
39 tactcttca atttgcaggc taaaaacgccc gccagctcat aactctcctg tttatatatgc 1080
40 aattcacaca gtgaatcttct tatcatccag gtaaaaaaata aaagcgtgaa acaaataact 1140
41 attaaagaaa gtaatctata ttctgcgcac ttccagcttct gtgttgcattt cacgagatgttgc 1200
42 tactgcacc 1209
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46 <211> LENGTH: 164
47 <212> TYPE: DNA
48 <213> ORGANISM: Artificial Sequence
50 <220> FEATURE:
51 <223> OTHER INFORMATION: Modified 5' Untranslated Region of cspA Gene
53 <400> SEQUENCE: 2
54 aaatttgttqaq cqqataacaa ttttgttqc taqcqcatat ccagtgttagt aaggcaagtc 60

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55 ccttcaagag cctttaacgc ttcaaaatct gtaaagcacg ccatatcgcc gaaaggcaca 120
56 cgagcggata acaatttcac attaattattt aaaggtata cacc 164
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60 <211> LENGTH: 156
61 <212> TYPE: DNA
62 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: Modified 5' Untranslated Region of cspA Gene
67 <400> SEQUENCE: 3
68 aaatttgtag cggtataacaa tttgatgtgc tagcgcataat ccagtgtagt aaggcaagtc 60
69 ccttcaagag cctttaacgc ttcaaaatct gtaaagcacg ccatatcgcc gaaaggcaca 120
70 catgttttgt agattaatta tttaaggtaa tacacc 156
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74 <211> LENGTH: 176
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Modified 5' Untranslated Region of cspA Gene
81 <400> SEQUENCE: 4
82 aaatttgtag cggtataacaa tttgatgtgc tagcgcataat ccagtgtagt aaggcaagtc 60
83 ccttcaagag cctttaacgc ttcaaaatct gtaaagcacg ccatatcgcc gaaaggcaca 120
84 catgttttgt agatttggaa gagtagatta gtattaatta tttaaggtaa tacacc 176
87 <210> SEQ ID NO: 5
88 <211> LENGTH: 144
89 <212> TYPE: DNA
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92 <220> FEATURE:
93 <223> OTHER INFORMATION: Modified 5' Untranslated Region of cspA Gene
95 <400> SEQUENCE: 5
96 aaatttgtag cggtataacaa tttgatgtgc tagcgcataat ccagtgtagt aaggcaagtc 60
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98 cttaattattt aaaggtata cacc 144
101 <210> SEQ ID NO: 6
102 <211> LENGTH: 40
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Synthetic Primer for PCR
109 <400> SEQUENCE: 6
110 gtgcggataa caatttcaca tttaattttaa aaggtaatac 40
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116 <213> ORGANISM: Artificial Sequence
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119 <223> OTHER INFORMATION: Synthetic Primer for PCR
121 <400> SEQUENCE: 7
122 tgcgcatctt cattgcaccc 20
125 <210> SEQ ID NO: 8

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127 <212> TYPE: DNA
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130 <220> FEATURE:
131 <223> OTHER INFORMATION: Synthetic Primer for PCR
133 <400> SEQUENCE: 8
134 tgtgaaattt ttatccgctc gtgtgccttt cggcgatatg 40
137 <210> SEQ ID NO: 9
138 <211> LENGTH: 31
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Synthetic Primer for PCR
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152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Synthetic Nucleotide inserted into 5' Untranslated Region of
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158 gagcggataa caatttcaca 20
161 <210> SEQ ID NO: 11
162 <211> LENGTH: 38
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Synthetic Primer for PCR
169 <400> SEQUENCE: 11
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173 <210> SEQ ID NO: 12
174 <211> LENGTH: 37
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: Synthetic Primer for PCR
181 <400> SEQUENCE: 12
182 tctggacattt cttagatttttgtatagttc atccatg 37
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186 <211> LENGTH: 36
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Synthetic Primer for PCR
193 <400> SEQUENCE: 13
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197 <210> SEQ ID NO: 14
198 <211> LENGTH: 36

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199 <212> TYPE: DNA
 200 <213> ORGANISM: Artificial Sequence
 202 <220> FEATURE:
 203 <223> OTHER INFORMATION: Synthetic Primer for PCR
 205 <400> SEQUENCE: 14
 206 gaaaacctag gatcctttag tggaaggaac atccaa 36
 209 <210> SEQ ID NO: 15
 210 <211> LENGTH: 52
 211 <212> TYPE: DNA
 212 <213> ORGANISM: Artificial Sequence
 214 <220> FEATURE:
 215 <223> OTHER INFORMATION: Synthetic Primer for PCR
 217 <400> SEQUENCE: 15
 218 catatcgccg aaaggcacac atgtttgtta gattaattat taaaggtaat ac 52
 221 <210> SEQ ID NO: 16
 222 <211> LENGTH: 52
 223 <212> TYPE: DNA
 224 <213> ORGANISM: Artificial Sequence
 226 <220> FEATURE:
 227 <223> OTHER INFORMATION: Synthetic Primer for PCR
 229 <400> SEQUENCE: 16
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 233 <210> SEQ ID NO: 17
 234 <211> LENGTH: 12
 235 <212> TYPE: DNA
 236 <213> ORGANISM: Artificial Sequence
 238 <220> FEATURE:
 239 <223> OTHER INFORMATION: Synthetic Nucleotide inserted into 5' Untranslated Region of
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 241 <400> SEQUENCE: 17
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 245 <210> SEQ ID NO: 18
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 247 <212> TYPE: DNA
 248 <213> ORGANISM: Artificial Sequence
 250 <220> FEATURE:
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 253 <400> SEQUENCE: 18
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 258 <211> LENGTH: 52
 259 <212> TYPE: DNA
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 266 tactaatcta ctcttcaaa tctacaaaac atgtgtgcct ttccggcgata tg 52
 269 <210> SEQ ID NO: 20
 270 <211> LENGTH: 32
 271 <212> TYPE: DNA

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Input Set : A:\JP2003-15835seq..txt
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272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Synthetic Nucleotide inserted into 5' Untranslated Region of
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277 <400> SEQUENCE: 20
278 atgttttgta gatttcaaag agtagattag ta

32

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/20/2006
PATENT APPLICATION: US/10/538,793 TIME: 12:06:20

Input Set : A:\JP2003-15835seq..txt
Output Set: N:\CRF4\03202006\J538793.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:10; Line(s) 155
Seq#:17; Line(s) 239
Seq#:20; Line(s) 275

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/538,793

DATE: 03/20/2006
TIME: 12:06:20

Input Set : A:\JP2003-15835seq..txt
Output Set: N:\CRF4\03202006\J538793.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date